

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> LWC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> LAWRENCE	<u>STATE</u> KS
<u>AIRPORT ELEVATION</u> 833	<u>TDZE</u> 831	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>DATED</u> 03/25/2021	<u>MAG VAR</u> 4E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 2 OCTOBER 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2005
			<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 240/30 CW 059/30	NOPT	GOLEY	IF/IAF	3100
2. 059/30 CW 150/30		CECAS	IAF	3100
3. 150/30 CW 240/30		DIBDE	IAF	3100

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
CECAS	IAF	GOLEY	NOPT	TF	FB	1.00	059.48	5.00	3100
DIBDE	IAF	GOLEY	NOPT	TF	FB	1.00	239.60	5.00	3100
GOLEY	IF/IAF	JITER		TF	FB	1.00	329.54	6.04	2900
JITER	FAF	HUTUS/2.00 NM TO RW33		TF	FB	0.30	329.51	4.23	
HUTUS/2.00 NM TO RW33		RW33	MAP	TF	FO	0.30	329.51	2.00	
RW33	MAP	1031 MSL		CA			329.51		
1031MSL		RIBCO		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT RIBCO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- | | | | | | | | | | |
|--------------|--|-----------------------------------|------------------------------|-------------------------------|----------------------|----------------|--|------------|--|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) | | | | |
| 2. | HOLD SE GOLEY, RT, 329.54 INBOUND, 3100 IN LIEU OF PT (IAF), MAX 6000. | | | | | | | | |
| 3. | FAC: 329.51 | FAF: JITER | DIST FAF TO MAP: 6.23 | DIST FAF TO THLD: 6.23 | | | | | |
| 4. | MIN ALT: GOLEY 3100, JITER 2900, HUTUS/2.00 NM TO RW33 1520 | | | | | | | | |
| 5. | DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 200 HAT: 0.47 | GS ANT: | | | |
| 6. | MIN GP INCPT: 2900 | GP ALT AT PFAF: JITER 2900 | | OM: | | MM: | | IM: | |
| 7. | GP ANGLE: 3.00 | 34:1: IS CLEAR | 20:1: IS CLEAR | TCH: 55.2 | | | | | |
| 8. | MSA FROM: | | | | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING TOP ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOP ALTIMETER SETTING AND INCREASE LPV DA TO 1083 FEET, INCREASE LNAV/VNAV DA TO 1252 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 60 FEET AND LNAV AND CIRCLING VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 149.40 INBOUND.
 CHART FAS OBST: 905 TREE (20-031377) 390001N/0951244W.
 CHART VDP AT 1.08 NM TO RW33.
 WAAS CHANNEL # 57913
 REFERENCE PATH ID: W33A
 LTP HAE: 220.2 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA STANDARD - CAT C 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E			
	FINAL TYPE	DA/MDA	VIS	HAT/HAA												
LPV DA	1031	3/4	200	1031	3/4	200	1031	3/4	200		NA					
LNAV/VNAV DA	1200	3/4	369	1200	3/4	369	1200	3/4	369		NA					
LNAV MDA	1220	3/4	389	1220	3/4	389	1220	3/4	389		NA					
CIRCLING	1420	1	587	1480	1	647	1620	2 1/4	787		NA					



CHANGES - REASONS

1. PROFILE: LINE 4 CHANGED MIN ALT FROM "GOLEY 3100, JITER 2900, HUTUS/2.00 NM TO RW33 1520*" TO "GOLEY 3100, JITER 2900, HUTUS/2.00 NM TO RW33 1520" - ASTERISK NO LONGER NEEDED.
2. PROFILE: LINE 7 ADDED "20:1 IS CLEAR" - PER CRITERIA 8260.19J 8-6-7 (G) (3).
3. PBN REQUIREMENTS NOTE: ADDED "RNP APCH - GPS" - PER CRITERIA 8260.19J 8-6-8 (D) (5) (A) (1).
4. NOTES: REMOVED "DME/DME RNP-0.3 NA" - REPLACED BY PBN REQUIREMENTS NOTE.
5. NOTES: CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C (4°F) OR ABOVE 54°C (130°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C" - REMOVED FAHRENHEIT PER CRITERIA
6. NOTES: CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PHILIP BILLARD MUNI ALTIMETER SETTING AND INCREASE LPV DA TO 1083 FEET, INCREASE LNAV/VNAV DA TO 1252 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 60 FEET AND VISIBILITY CAT C 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOP ALTIMETER SETTING AND INCREASE LPV DA TO 1083 FEET, INCREASE LNAV/VNAV DA TO 1252 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 60 FEET AND LNAV AND CIRCLING VISIBILITY CAT C 1/4 SM" - REMOVED FAHRENHEIT VALUES PER CRITERIA 8260.19J 8-6-10 (R).
7. NOTES: REMOVED CHART NOTE "VGSI AND RNAV GLIDEPATH NOT COINCIDENT - UPDATED TCH PER AIR NAV DATA, VGSI IS NOW COINCIDENT.
8. NOTES: REMOVED "LNAV ONLY" - NO LONGER NEEDED.
9. NOTES: CHANGED CHART NOTE FROM "BARO-VNAV AND VDP NA WHEN USING PHILIP BILLARD MUNI ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING TOP ALTIMETER SETTING" - UPDATED NOTE TO 8260.19J FORMATTING.
10. FAS DATA BLOCK INFORMATION: LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+02203" TO "+02202" AND CRC REMAINDER VALUE CHANGED FROM "66F8D828" TO "24631266" - LTP/FTP ELLIPSOIDAL HEIGHT CHANGED BASED OFF AIR NAV DATA, FORCING THE CRC REMAINDER VALUE TO CHANGE.

07/16/25: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/06/25.

1. TERMINAL ROUTES: HUTUS CHANGED TO HUTUS/2.00 NM TO RW33.
2. PROFILE LINE 6: GP ALT AT PFAF CHANGED FROM JITER TO JITER 2900.
3. ADDITIONAL FLIGHT DATA: REMOVED NOTE CHART APT ELEV 833.

07/21/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/14/2025.
TERMINAL ROUTES: CHANGED CA ALTITUDE FROM 2700 TO 1031.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: ZKC, MCI APP CON, AMGR

Digitally signed by

FLIGHT CHECKED BY
RUSSELL ROSLEWSKI

CASEY D HILL
Jul 14, 2025

OFFICE
AJF **DATE**
07/10/2025

DEVELOPED BY
TRAVIS BRISTOW

Digitally signed by
CASEY D HILL
Jul 14, 2025

OFFICE
AJV-A421 **DATE**
05/06/2025

APPROVED BY
DAVID DANNER

Digitally signed by
CASEY D HILL
Jul 14, 2025

OFFICE
AJV-A421 **DATE**
TITLE
MANAGER



AIRPORT ID
LWC

PROCEDURE NAME
RNAV (GPS) RWY 33

ORIGINAL/AMENDMENT
1B

CITY
LAWRENCE

STATE
KS

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLWC
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	390016.7670N
LTP/FTP LONGITUDE	0951240.0715W
LTP/FTP ELLIPSOIDAL HEIGHT	+02202
FPAP LATITUDE	390108.1000N
FPAP LONGITUDE	0951312.9200W
THRESHOLD CROSSING HEIGHT (TCH)	00055.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0032
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 24631266

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02521
FPAP ORTHOMETRIC HEIGHT	+02521

